IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Cynthia B. ROBINSON, et al.

Serial Number: 10/698,071

Filing Date: October 29, 2003

Title: COMBINATION OF

DEHYDROEPIANDROSTERONE OR DEHYDROEPIANDROSTERONE-SULFATE WITH A TYROSINE KINASE, INHIBITOR, DELTA OPIOID RECEPTOR ANTAGONIST, NEUROKKININ RECEPTOR ANTAGONIST, OR VCAM INHIBITOR FOR TREATMENT OF ASTHMA OR CHRONIC OBSTRUCTIVE PILL MONARY DISEASE

Group Art Unit: 1617

Examiner: Umamaheswari Ramachandran

CONFIRMATION NO: 9181

FILED ELECTRONICALLY ON: July 12, 2007

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97

Sir:

Applicants hereby submit an Information Disclosure Statement along with attached form PTO/SB/08. A copy of each listed publication is submitted, if required, pursuant to 37 CFR §§1.97-1.98, as indicated below.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. Applicants further request that the Examiner initial and return the attached form PTO/SB/08 in accordance with MPEP §609.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, prior art or material to patentability as defined in §1.56. A. \$\implies 37 CFR \(\xi_1.97(b) \). This Information Disclosure Statement should be considered by the Office because: It is being filed within 3 months of the filing date of a national application and is П (1) other than a continued prosecution application under §1.53(d); (2) It is being filed within 3 months of entry of the national stage as set forth in §1,491 in an international application; -- OR --X (3) It is being filed before the mailing of a first Office action on the merits; -- OR --(4) It is being filed before the mailing of a first Office action after the filing of a request for continued examination under §1.114. B. 37 CFR §1.97(c). Although this Information Disclosure Statement is being filed after the period specified in 37 CFR \$1,97(b), above, it is filed before the mailing date of the earlier of (1) a final office action under §1.113, (2) a notice of allowance under §1.311, or (3) an action that otherwise closes prosecution on the merits, this Information Disclosure Statement should be considered because it is accompanied by one of: a statement as specified in \$1.97(e) provided concurrently herewith; -- OR -a fee of \$180.00 as set forth in \$1.17(p) authorized below, enclosed, or included with the payment of other papers filed together with this statement. C. 37 CFR \$1.97(d). Although this Information Disclosure Statement is being filed after the mailing date of the earlier of (1) a final office action under §1.113 or (2) a notice of allowance under §1.311, it is being filed before payment of the issue fee and should be considered because it is accompanied by: a statement as specified in §1.97(e); -- AND -ii. a fee of \$180.00 as set forth in \$1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this Statement. D. 37 CFR §1.97(e). Statement. A statement is provided herewith to satisfy the requirement under 37 CFR §§1.97(c);

information disclosure statement is being submitted within 3 months of the filing date on the communication is provided in lieu of a statement under 37 C.F.R. § 1.97(e)(1) as provided for under MPEP 609.04(b) V.

-- AND/OR --

-- AND/OR --

 \Box

A statement is provided herewith to satisfy the requirement under 37 CFR §§1.97(d);

A copy of a dated communication from a foreign patent office clearly showing that the

E.	☐ Statement Under 37 C.F.R. §1.704(d). Each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart application that was received by an individual designated in § 1.56(c) not more than thirty (30) days prior to the filing of this information disclosure statement. This statement is made pursuant to the requirements of 37 C.F.R. §1.704(d) to avoid reduction of the period of adjustment of the patent term for Applicant(s) delay.								
F.		R §1.98((a)(2). The content of the Information Disclosure Statement is as follows:						
		Copies herewi	of each of the references listed on the attached Form PTO/SB/08 are enclosed th.						
			OR						
	\boxtimes		of U.S. Patent Documents (issued patents and patent publications) listed on the d Form PTO/SB/08 are NOT enclosed.						
			AND/OR						
	\boxtimes		of Foreign Patent Documents and/or Non Patent Literature Documents listed on the Form PTO/SB/08 are enclosed in accordance with 37 CFR §1.98 (a)(2).						
			AND/OR						
	\boxtimes		of pending unpublished U.S. patent applications are enclosed in accordance with $\frac{3}{1.98}$ (a)(2)(iii).						
G.	37 CF		(a)(3). The Information Disclosure Statement includes non-English patents and/or						
			nt to 37 CFR §1.98(a)(3)(i), a concise explanation of the relevance of each patent, ation or other information provided that is not in English is provided herewith.						
			Pursuant to MPEP 609(B), an English language copy of a foreign search report is submitted herewith to satisfy the requirement for a concise explanation where non-English language information is cited in the search report.						
			OR						
			A concise explanation of the relevance of each patent, publication or other information provided that is not in English is as follows:						
			nt to 37 CFR §1.98(a)(3)(ii), a copy of a translation, or a portion thereof, of the aglish language reference(s) is provided herewith.						
H.	37 CF	<i>R §1.98</i> (n specifi	(d). Copies of patents, publications and pending U.S. patent applications, or other ed in 37 C.F.R. § 1.98(a) are not provided herewith because:						
		Inform	nt to 37 CFR §1.98(d)(1) the information was previously submitted in an ation Disclosure Statement for another application under which this application priority for an earlier effective filing date under 35 U.S.C. 120.						
		Applic	ation in which the information was submitted:						
		Inform	ation Disclosure Statement(s) filed on:						
			AND						
			formation disclosure statement submitted in the earlier application complied with aphs (a) through (c) of 37 CFR §1.98.						

I. \(\int \) Fee Authorization. The Commissioner is hereby authorized to charge the above-referenced fees of \$0.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 23-2415 (Docket No. 30775-719.201).

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI

Dated: July 12, 2007

650 Page Mill Road Palo Alto, CA 94304-1050 (650) 493-9300 Customer No. 021971

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Substitute	for form 144	19/PTO		Application Number	10/698,071
INFOR	MATION	DISC	LOSURE	Filing Date	October 29, 2003
			LICANT	First Named Inventor	Cynthia B. Robinson
(Use a	s many shee	ets as nec	essary)	Art Unit	1617
				Examiner Name	Umamaheswari Ramachandran
Sheet	1	Of	3	Attorney Docket Number	30775-719.201

		U.S. P	ATENT DOC	UMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US 2004/0067920	04/08/2004	Leonard et al.	
	2.	US 2004/0082522	04/29/2004	Hui	
	3.	US 2005/0026850 A1	02/03/2005	Robinson et al.	
	4.	US 4,501,729	02/26/1985	Boucher et al.	
	5.	US 4,956,355	09/11/1990	Prendergast	
	6.	US 5,527,789	06/18/1996	Nyce	
	7.	US 5,660,835	08/26/1997	Nyce ·	
	8.	US 5,859,000	01/12/1999	Dowell et al.	
	9.	US 6,087,351	07/11/2000	Nyce	
	10.	US 6,479,666	11/12/2002	Hull et al.	
	11.	US 6,635,629	10/21/2003	Raymond et al.	

	FOREIGN PATENT DOCUMENTS										
Examiner Cite Foreign Patent Document Courty Code' - Number' - Klad Code' (glosom) Publication Date MM-DD-YYYY MM-DD-YYYY MM-DD-YYYYY MM-DD-YYYY MM-DD-YYYYY MM-D-YYYY MM-DD-YYYYY MM-DD-YYYY MM-DD-YYYY MM-DD-YYYY MM-DD-YYYY MM-DD-YYYYY MM-DD-YYYYY MM-DD-YYYYY MM-DD-YYYYY MM-DD-YYYY MM-DD-YYYYY MM-D-YYYYY MM-DD-YYYYYY MM-D-YYYYYY MM-D-YYYYY MM-D-YYYYY MM-D-YYYYYY MM-D-YYYYY MM-											
	12.	EP 429,187 B1	05/29/1991	Bourke et al.							
	13.	EP 934,745 A1	08/11/1999	Kennedy							
	14.	GB 2,240,472 A	08/07/1991	Masterson							
	15.	WO 1991/04030 A1	04/04/1991	Daynes et al.							
	16.	WO 1996/25935 A1	08/29/1996	Nyce							

Examiner	Date
Signature	Considered
*EXAMINER: In	itial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy

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	many shee			Art Unit	1617	
				Examiner Name	Umamaheswari Ramachandran	
Sheet	2	Of	3	Attorney Docket Number	30775-719.201	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	17.	ABOU-GHARBIA, et al. Synthesis of dehydroepiandrosterone sulfatide and 16 alphahalogenated steroids. J Pharm Sci. 1981; 70(10): 1154-7.	
	18.	FOLKERS, et al. Lovastatin decreases coenzyme Q levels in humans. Proc Natl Acad Sci U.S.A. 1990; 87(22): 8931-4.	
	19.	GREENBERG, et al. Co-enzyme Q10: a new drug for cardiovascular disease. J Clin Pharm. 1990; 30(7): 596-608	
	20.	HARTIALA, et al. Testosterone metabolism in dog lung in vitro. Steroids Lipids Res. 1973; 4(1): 17-23.	
	21.	ISHIHARA, et al. Gas chromatographic determination of degradation products and stability of dehydroepiandrosterone sulfate in aqueous solution. Drug Dev Indust Pharm. 1979; 5(3): 263-75.	
	22.	MILEWICH, et al. Androstenedione metabolism in human lung fibroblasts. J Steroid Biochem. 1986; 24(4): 893-7.	
	23.	MILEWICH, et al. Metabolism of androsterone and 5 alpha-androstane-3 alpha, 17 beta-diol in human lung tissue and in pulmonary endothelial cells in culture. J Clin Endocrinol Metab. 1985; 60(2): 244-50.	
	24.	MILEWICH, et al. Metabolism of dehydroisoandrosterone and androstenedione by the human lung in vitro. J Steroid Biochem. 1977; 8(4): 277-84.	
	25.	MILEWICH, et al. Metabolism of dehydroisoandrosterone and androstenedione in human pulmonary endothelial cells in culture. J Clin Endocrinol Metab. 1983; 56(5): 930-5.	
	26.	MILEWICH, et al. Testosterone metabolism by human lung tissue. J Steroid Biochem. 1978; 9(1): 29-32.	

Examiner	Date
Signature	Considered
*FX AMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609	Draw line through citation if not in conformance and not considered. Include copy
of this form with next communication to applicant 'Applicant's unique citation designation number (option	nal). 2See Kinds Codes of USPTO Patent Documents at www uspto-gov or MPEP

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				Complete if Known		
Substitute f	or form 144	9/PTO		Application Number	10/698,071	
INFORM	IATION	DISCL	OSURE	Filing Date	October 29, 2003	
STATEM				First Named Inventor	Cynthia B. Robinson	
(Use a:	many shee	ts as nece	essary)	Art Unit	1617	
				Examiner Name	Umamaheswari Ramachandran	
Sheet	3	Of	3	Attorney Docket Number	30775-719.201	

		NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
Examiner Initials*	Cite No.1	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴
	27.	MOHAN, et al. Dehydroepiandrosterone and related steroids inhibit mitochondrial respiration in vitro. Int J Biochem. 1989; 21(10): 1103-7.	
	28.	MORTENSEN, et al. Coenzyme Q10: Clinical benefits with biochemical correlates suggesting a scientific breakthrough in the management of chronic heart failure. Int J Tissue React. 1990; 12(3): 155-62.	
	29.	PONGRÁCZ, et al. Capillary gas chromatography of urinary steroids of terbutaline- treated asthmatic children. Chromatographia. 1998; 48(1-2): 163-5.	

	UNPUBLISHED PATENT APPLICATIONS									
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶							
	30.	LEONARD, et al. US Patent Application No. 10/462,927, entitled "Dihydrate dehydroepiandrosterone and methods of treating asthma or chronic obstructive pulmonary disease using compositions thereof," filed June 17, 2003. (WSGR Reference No. 30775-722.201)								

Examiner	Date
Signature	Considered
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^{**}EXAMINER: Initial Inference considered, whether or not classics in a conformance with MFTP 600. Does the through classes if not in conformance in considered in the conformance in a conformance in a

checks mak, here it targish language Translations attached.

The information is required to obtain or main a benefit by the picker which is to \$E_1\$ (and by the UUSTTO to proceed) as application. Confidentiality is governed by \$3\$ U.S.C. 123 and \$7\$ CFR 1.14. This collection is estimated to take 2 booms of benefits gathering generous metal-basing gathering generous process. In excellent the process of the pr